

L8 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2002 ACS
AN 1997:701862 CAPLUS
DN 127:319667
TI Moisture-curable extrudable compositions
IN Prigent, Madeleine; Chailie, Alain
PA Alcatel Alsthom Compagnie Generale D'Electricite, Fr.
SO Eur. Pat. Appl., 6 pp.
CODEN: EPXXDW

DT Patent
LA French
IC ICM C08L043-04
ICS C08L023-02
CC 37-6 (Plastics Manufacture and Processing)
Section cross-reference(s): 39

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 802224	A1	19971022	EP 1997-400819	19970410
	EP 802224	B1	20000202		
	R: AT, BE, CH, DE, DK, ES, GB, GR, IT, LI, NL, SE, PT, IE				
	FR 2747390	A1	19971017	FR 1996-4723	19960416
	FR 2747390	B1	19980522		
	ES 2143286	T3	20000501	ES 1997-400819	19970410
	CA 2202785	AA	19971016	CA 1997-2202785	19970415
	US 5905106	A	19990518	US 1997-842531	19970415 <--
PRAI	FR 1996-4723	A	19960416		

AB The title compns., useful in the sheathing of cables and elec. wires (no data), contain thermoplastics, hydrolyzable silanes, green elastomers, crosslinking agents, and fillers bearing surface OH groups. A mixt. of maleated polyethylene 20, 74:26 EVA 20, 60:40 EVA 60, Mg(OH)2 150, alkoxyaminosilane 2, peroxide 2, and antioxidant 0.5 part had tensile strength 15.7 MPa, elongation 166%, compression set 3%, and limiting O index 37%.

ST extrusion compn moisture curable; polyethylene maleated blend moisture curable; EVA blend moisture curable; rubber blend moisture curable; silane aminoalkoxy blend moisture curable; magnesium hydroxide filler blend; cable sheath moisture curable

IT Kaolin, uses
RL: MOA (Modifier or additive use); USES (Uses)
(filler; moisture-curable extrudable compns.)

IT Silanes
RL: MOA (Modifier or additive use); USES (Uses)
(hydrolyzable; moisture-curable extrudable compns.)

IT Mica fillers
(moisture-curable extrudable compns.)

IT Ethylene-vinyl acetate rubber
Maleated ethylene-propylene rubber
RL: POF (Polymer in formulation); USES (Uses)
(moisture-curable extrudable compns.)

IT 24937-78-8
RL: POF (Polymer in formulation); USES (Uses)
(ethylene-vinyl acetate rubber, moisture-curable extrudable compns.)

IT 1309-42-8, Magnesium hydroxide 1344-28-1, Alumina, uses
RL: MOA (Modifier or additive use); USES (Uses)
(filler; moisture-curable extrudable compns.)

IT 9010-79-1D, maleated
RL: POF (Polymer in formulation); USES (Uses)
(maleated ethylene-propylene rubber, moisture-curable extrudable compns.)

IT 106343-08-2
RL: POF (Polymer in formulation); USES (Uses)
(moisture-curable extrudable compns.)

IT 24937-78-8, EVA
RL: POF (Polymer in formulation); USES (Uses)
(rubber; moisture-curable extrudable compns.)

L8 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2002 ACS
AN 1996:574271 CAPLUS
DN 125:198463

TI Melt-extrudable moisture-curable thermoplastic composition comprising
silane-elastomer reaction product
IN Shah, Ketan N.; Campbell, Stephen M.
PA Kimberly-Clark Corporation, USA
SO Can. Pat. Appl., 21 pp.
CODEN: CPXXEB

DT Patent

LA English

IC ICM C08F291-02

ICS C08F008-42; D04H001-56; B32B005-06

CC 40-10 (Textiles and Fibers)

Section cross-reference(s): 37, 39

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CA 2161712	AA	19960504	CA 1995-2161712	19951030
	US 5714257	A	19980203	US 1996-588278	19960118 <--
	US 5786412	A	19980728	US 1996-653996	19960528 <--
PRAI	US 1994-333805		19941103		
	US 1995-443499		19950518		
AB	The title compn. [e.g., prepd. from H2C:CHSi(OMe)3 and butadiene-styrene block copolymer] shows good hysteresis, stress decay, and creep properties and is esp. useful for the prepn. of nonwoven fabrics with medical, personal care, feminine hygiene, and other applications.				
ST	silane crosslinking block SBR thermoplastic prepn; nonwoven fabric thermoplastic prepn silane SBR; fiber nonwoven thermoplastic prepn silane SBR; vinyltrimethoxysilane crosslinking block SBR thermoplastic				
IT	Synthetic fibers, polymeric RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation) (melt-extrudable moisture-curable thermoplastic compn. prepd. from block SBR and trimethoxyvinylsilane for)				
IT	Crosslinking (of block SBR-trimethoxyvinylsilane reaction product by moisture to give melt-extrudable thermoplastic compn.)				
IT	Crosslinking agents (vinyltrimethoxysilane; for block SBR to give melt-extrudable thermoplastic compn.)				
IT	Rubber, butadiene-styrene, uses RL: IMF (Industrial manufacture); NUU (Other use, unclassified); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (block, reaction products with trimethoxyvinylsilane; melt-extrudable moisture-curable thermoplastic compn. for nonwoven webs and films)				
IT	Textiles (nonwoven, melt-extrudable moisture-curable thermoplastic compn. prepd. from block SBR and trimethoxyvinylsilane for)				
IT	2768-02-7DP, Vinyltrimethoxysilane, reaction products with block SBR 106107-54-4DP, Butadiene-styrene block copolymer, reaction products with trimethoxyvinylsilane RL: IMF (Industrial manufacture); NUU (Other use, unclassified); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (melt-extrudable moisture-curable thermoplastic compn. for nonwoven webs and films)				
IT	106107-54-4P RL: IMF (Industrial manufacture); NUU (Other use, unclassified); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (rubber, block, reaction products with trimethoxyvinylsilane; melt-extrudable moisture-curable thermoplastic compn. for nonwoven webs and films)				

L8 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2002 ACS
AN 1991:609671 CAPLUS

DN 115:209671
 TI Thermosetting polyurethane structural adhesives
 IN Cody, Charles; Hartman, Terrence
 PA Rheox International, Inc., USA
 SO Eur. Pat. Appl., 16 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 IC ICM C08G018-08
 ICS C08G018-10; C08G018-42; C08G018-60; C09J175-06
 CC 38-3 (Plastics Fabrication and Uses)
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 392170	A2	19901017	EP 1990-103344	19900221
	EP 392170	A3	19910417		
	EP 392170	B1	19940907		
	R: BE, DE, ES, FR, GB, IT, LU, NL				
	US 5075407	A	19911224	US 1989-336002	19890410 <--
	CA 2010911	AA	19901010	CA 1990-2010911	19900226
	SE 9001077	A	19901011	SE 1990-1077	19900323
	AU 9052915	A1	19901011	AU 1990-52915	19900404
	AU 640922	B2	19930909		
	JP 03149278	A2	19910625	JP 1990-93833	19900409
	JP 2590289	B2	19970312		
PRAI	US 1989-336002		19890410		

AB The title adhesives are prepd. by dispersing amine-terminated polyamides in polyurethanes at 25-200.degree. and heating the mixt. at 50-250.degree.. Thus, a mixt. of Dynacoll RP360-Dynacoll RP230-Dynacoll RP110-MDI copolymer and a reaction product (I) of p-MeC6H4SO2NCO with 2-methyl-1,5-pentanediamine-sebacic acid copolymer showed shear adhesion to cold-rolled steel 457 psi (30 s at 180.degree. and 2 h at room temp.); vs. 213 without I.

ST thermosetting polyurethane adhesive; polyester polyurethane adhesive; polyamide polyurethane adhesive; sebacic acid polyamide adhesive; methylpentanediamine polyamide adhesive

IT Crosslinking agents
 (dimer acid-sebacic acid-octadecylamine reaction products, microencapsulated, for polyurethane adhesives)

IT Adhesives
 (polyurethanes, contg. amino-terminated polyamides, thermosetting)

IT Polyamides, uses and miscellaneous
 RL: USES (Uses)
 (amino-terminated, in thermosetting polyurethane adhesives)

IT Urethane polymers, uses and miscellaneous
 RL: TEM (Technical or engineered material use); USES (Uses)
 (polyester-, adhesives, thermosetting, contg. amino group-terminated polyamides)

IT Fatty acids, polymers
 RL: USES (Uses)
 (unsatd., dimers, reaction products, with sebacic acid and octadecylamine, crosslinking agents for polyurethane adhesives)

IT 136451-09-7
 RL: TEM (Technical or engineered material use); USES (Uses)
 (adhesives, thermosetting, contg. amino group-terminated polyamides)

IT 111-20-6D, Decanedioic acid, reaction products with dimer acids and octadecylamine 124-30-1D, Armeen 18D, reaction products with dimer acids and sebacic acid
 RL: USES (Uses)
 (curing agents, for polyurethane adhesives)

IT 4083-64-1D, p-Toluenesulfonyl isocyanate, reaction products with polyamides 135889-93-9D, reaction products with toluenesulfonyl isocyanate
 RL: USES (Uses)
 (in thermosetting polyurethane adhesives)

AN 1988:438897 CAPLUS
 DN 109:38897
 TI Accelerated crosslinking of polyolefins grafted with silanes
 IN Gimpel, Franco; Brichta, Corrado
 PA Italy
 SO U.S., 5 pp. Cont.-in-part of U.S. Ser. No. 566,300, abandoned.
 CODEN: USXXAM
 DT Patent
 LA English
 IC ICM C08K003-34
 NCL 523210000
 CC 37-6 (Plastics Manufacture and Processing)
 Section cross-reference(s): 67
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4680319	A	19870714	US 1985-728212	19850429 <--
PRAI	IT 1983-24121		19831212		
	US 1983-566300		19831228		
	IT 1984-20702		19840427		
AB	Compsns. rapidly crosslinked by microwave radiation or water contain olefin-silane graft polymers and 0.1-20% hydrated or (partially) dehydrated, powd. zeolites. A graft polymer tape of 100:1.5 C2H4-CH2:CHSi(OCH2CH2OMe)3 graft polymer contg. 2.5 parts hydrated zeolite (Sipernat 44), 1 part 1:1 dispersion of dehydrated zeolite (Baylith L) in castor oil, and 0.05 parts Bu2Sn dilaurate was soaked in H2O at 80.degree. for 3 h, giving xylene-insols. 72%, vs. no crosslinking without zeolites.				
ST	ethylene graft polymer crosslinking; microwave crosslinking catalyst; water crosslinking polyolefin catalyst; zeolite catalyst crosslinking polyolefin; siloxane deriv copolymer crosslinking				
IT	Microwave, chemical and physical effects (crosslinking by, of silane-grafted polyolefins, catalysts for)				
IT	Crosslinking catalysts (zeolites, for silane-grafted polyolefins by moisture and microwaves)				
IT	Zeolites, uses and miscellaneous RL: CAT (Catalyst use); USES (Uses) (A, catalysts, for crosslinking of silane-grafted polyolefins by moisture or microwaves)				
IT	Zeolites, uses and miscellaneous RL: CAT (Catalyst use); USES (Uses) (P, catalysts, for crosslinking of silane-grafted polyolefins by moisture or microwaves)				
IT	Zeolites, uses and miscellaneous RL: CAT (Catalyst use); USES (Uses) (X, catalysts, for crosslinking of silane-grafted polyolefins by moisture or microwaves)				
IT	Zeolites, uses and miscellaneous RL: CAT (Catalyst use); USES (Uses) (Y, catalysts, for crosslinking of silane-grafted polyolefins by moisture or microwaves)				
IT	9002-88-4D, silane-grafted		107709-21-7	110310-61-7	
	RL: RCT (Reactant) (crosslinking of, by moisture, catalysts for)				
IT	1335-30-4				
	RL: USES (Uses) (zeolites, A, catalysts, for crosslinking of silane-grafted polyolefins by moisture or microwaves)				
IT	1335-30-4				
	RL: USES (Uses) (zeolites, P, catalysts, for crosslinking of silane-grafted polyolefins by moisture or microwaves)				
IT	1335-30-4				
	RL: USES (Uses) (zeolites, X, catalysts, for crosslinking of silane-grafted polyolefins by moisture or microwaves)				
IT	1335-30-4				
	RL: USES (Uses)				

(zeolites, Y, catalysts, for crosslinking of silane-grafted polyolefins by moisture or microwaves)

L8 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2002 ACS

AN 1987:6024 CAPLUS

DN 106:6024

TI Radical initiator-modified linear low-density ethylene polymers and their blends for blown films

IN Colombo, Edward A.; Kwack, Tae H.; Su, Tien Kuei

PA Mobil Oil Corp., USA

SO U.S., 8 pp.

CODEN: USXXAM

DT Patent

LA English

IC ICM C08L023-08

ICS C08L023-26

NCL 525072000

CC 37-6 (Plastics Manufacture and Processing)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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→ PI US 4614764 A 19860930 US 1985-708911 19850306 <--

AB The title blends, optionally contg. polymers modified with unsatd. silanes, give films with good mech. and antiblocking properties. An 80:20 blend of MLA 043 (I) with I modified by 1% vinyltrimethoxysilane and 0.1% tert-Bu peroxy-pivalate gave a blown film with yield strength 1466 and 1390 psi, tensile strength 5071 and 3148 psi, and elongation 743 and 777% in the machine and transverse directions, resp., and blocking resistance 2.7 (inside surface to inside surface) and 2.8 g/in. (outside surface to outside surface), vs. 1410, 1503, 4433, 2832, 743, 698, 2.9, and 2.7, resp., for I only.

ST ethylene polymer peroxide modified; silane modification ethylene polymer; blocking resistance ethylene polymer; blend ethylene polymer film

IT Extrusion of plastics and rubbers

(blown, tubular, of LLDPE blends with radical initiator-modified LLDPE, bubble stability in)

IT 78-08-0D, Vinyl triethoxysilane, reaction products with polyolefins

2768-02-7D, Vinyl trimethoxysilane, reaction products with polyolefins

101027-10-5D, reaction products with unsatd. silanes and radical

initiators 105808-80-8D, reaction products with unsatd. silanes and

radical initiators 105808-83-1D, reaction products with unsatd. silanes

and radical initiators 105808-89-7D, reaction products with unsatd.

silanes and radical initiators

RL: USES (Uses)

(LLDPE blends, for blown films)

IT 75-91-2, tert-Butyl hydroperoxide 80-43-3, Dicumyl peroxide 927-07-1, tert-Butyl peroxy-pivalate

RL: USES (Uses)

(LLDPE modified by, LLDPE blends, for blown films)

L8 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2002 ACS

AN 1985:596849 CAPLUS

DN 103:196849

TI Crosslinked polyolefin articles

IN Bergstroem, Christer; Brenner, Johan

PA Neste Oy, Finland

SO Belg., 20 pp.

CODEN: BEXXAL

DT Patent

LA French

IC ICM C08J

ICS B29C; B29K

CC 37-6 (Plastics Manufacture and Processing)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI BE 901442 A1 19850502 BE 1985-214288 19850104

FI 8400057	A	19850707	FI 1984-57	19840106
FR 2557879	A1	19850712	FR 1985-92	19850104
WO 8503080	A1	19850718	WO 1985-FI3	19850104 <--
W: AT, CH, DE, DK, GB, NL, NO, SE, SU, US				
NL 8520002	A	19851001	NL 1985-20002	19850104
DE 3590010	T	19851128	DE 1985-3590010	19850104
GB 2168056	A1	19860611	GB 1985-20470	19850104
NO 8503385	A	19850828	NO 1985-3385	19850828
DK 8504014	A	19850903	DK 1985-4014	19850903
SE 8504137	A	19850905	SE 1985-4137	19850905
BR 8602863	A	19880202	BR 1986-2863	19860620
PRAI FI 1984-57		19840106		
WO 1985-FI3		19850104		
AB	Crosslinkable compns. are prepd. (e.g., in an extruder) by mixing a polyolefin with 0.1-10% hydrolyzable silane deriv. capable of reacting with the polyolefin to provide moisture-reactive crosslinking groups, 0-5% crosslinking catalyst, 0.1-5% H2O, and 0-20% vehicle for the H2O and then cooling the shaped mixt. under pressure until the temp. is near or below the b.p. of H2O. The method eliminates or controls the foaming of the compns. by H2O vapor during cooling and permits rapid and extensive crosslinking of the shaped compns. Thus, low-d. polyethylene was mixed with CH2:CHSi(OMe)3 2, CaSO4.2H2O (H2O source) 1, and Bu2Sn dilaurate [77-58-7] 0.1% in an extruder, and the mixt. was cooled to <100.degree. as it left the extruder, giving a molding with d. 0.63 and degree of crosslinking 61%.			
ST	foaming control crosslinking polyolefin; polyethylene crosslinking foaming control; silane crosslinking polyolefin; water crosslinking silane polyolefin			
IT	Crosslinking catalysts (dibutyltin dilaurate, for silane-grafted polyethylene by moisture)			
IT	Crosslinking agents (hydrated salts, for silane-grafted polyolefins)			
IT	Molding of plastics and rubbers (of silane-grafted moisture-curable polyolefins, foaming control in)			
IT	Crosslinking (of silane-grafted polyolefins by moisture, control of foaming in)			
IT	77-58-7 RL: CAT (Catalyst use); USES (Uses) (catalysts, for crosslinking of silane-grafted polyethylene by moisture)			
IT	10101-41-4 RL: USES (Uses) (moisture-curable polyolefin-silane reaction products contg., prepn. of)			
IT	1067-53-4DP, reaction products with polyethylene 2768-02-7DP, reaction products with polyethylene RL: PREP (Preparation) (prepn. of moisture-crosslinkable, control of foaming in)			
IT	9002-88-4DP, vinyltrialkoxysilane-grafted RL: PREP (Preparation) (prepn. of moisture-crosslinkable, foaming control in)			
L8	ANSWER 7 OF 7 CAPLUS COPYRIGHT 2002 ACS			
AN	1979:122827 CAPLUS			
DN	90:122827			
TI	Chemical modification of poly[bis(aryloxy)phosphazene] with amines			
IN	Fieldhouse, John W.			
PA	Firestone Tire and Rubber Co., USA			
SO	U.S., 4 pp. CODEN: USXXAM			
DT	Patent			
LA	English			
IC	C08G079-04			
NCL	260823000			
CC	38-4 (Elastomers, Including Natural Rubber)			
FAN.CNT 1				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI	US 4130547	A	19781219	US 1977-844018	19771020
	CA 1113097	A1	19811124	CA 1978-311716	19780920
	EP 1748	A1	19790516	EP 1978-100992	19780926 <--
	EP 1748	B1	19820512		
	R: BE, DE, FR, GB, NL				
	AU 7840876	A1	19800424	AU 1978-40876	19781019
	AU 527360	B2	19830303		
	JP 54077700	A2	19790621	JP 1978-129959	19781020
	JP 56015819	B4	19810413		

PRAI US 1977-844018 19771020

AB Tough, fibrous polyaryloxyphosphazenes and polyalkylaryloxyphosphazenes (d.p. 20-50,000) are treated with 1-10 wt. % NRR1R2 (R = H, alkyl, cycloalkyl; R1 = aryl, H; R2 = aryl, aminoaryl) to give soft, readily processed elastomers. Thus, a stiff polyphosphazene contg. p-EtC6H4O 42, PhO 54, and o-allylphenoxy substituents 5% of Mooney ML/4/212 value 113 was treated with 5% Santoflex 77 [N,N'-bis(1,4-dimethylpentyl)-p-phenylenediamine] in THF at 80.degree. to give a soft, elastomeric, resilient product readily processed on a Banbury or Brabender app.

ST polyphosphazene amine modification elastomer

IT Amines, compounds

RL: USES (Uses)

(reaction products with polyaryloxyphosphazenes, rubber, with improved processing properties)

IT Phenols, compounds

RL: USES (Uses)

(salts, reaction products with hexachlorocyclotriphosphazene polymer and amines, manuf. of elastomeric)

IT Phosphazene polymers

RL: USES (Uses)

(aryloxy, amine-modified, elastomeric, with improved processing properties)

IT Rubber, synthetic

RL: USES (Uses)

(phosphazene, amine-modified aryloxy derivs., with improved processing properties)

IT 89-28-1D, reaction products with polyaryloxyphosphazenes 103-96-8D, reaction products with polyaryloxyphosphazenes 122-39-4D, reaction products with polyaryloxyphosphazenes 139-60-6D, reaction products with polyaryloxyphosphazenes 793-24-8D, reaction products with polyaryloxyphosphazenes 3081-14-9D, reaction products with polyaryloxyphosphazenes 25231-98-5D, reaction products with phenoxides and amines 26085-02-9D, reaction products with phenoxides and amines 69771-51-3D, reaction products with polyaryloxyphosphazenes

RL: USES (Uses)

(rubber, with improved processing properties)

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